

REMARKS

Claims 1-11 are pending. By this Amendment, Fig. 7 is corrected and the specification is amended.

Reconsideration based on the following remarks is respectfully requested.

I. The Specification Satisfies All Formal Requirements

The Office Action objects to the Abstract based on informalities. The Abstract is amended to obviate the objection. Withdrawal of the objection to the Abstract is respectfully requested.

II. The Claims Satisfy All Formal Requirements

The Office Action objects to claim 3 based on informalities. Specifically, the Office Action asserts that the relationship between the cell gap differences is reversed in the claim. The specification is amended to correspond with what was originally recited in claim 3. Withdrawal of the objection to claim 3 is respectfully requested.

The Office Action objects to claim 5 based on informalities. Specifically, the Office Action asserts that left and right domains and upper and lower domains are not clearly illustrated. Fig. 7 is amended to show these features. Withdrawal of the objection to claim 5 is respectfully requested.

III. The Claims Define Patentable Subject Matter

The Office Action rejects claims 1-4 and 7-11 under 35 U.S.C. § 103(a) over Kim et al. (U.S. Patent No. 6,462,798) in view of Takao et al. (U.S. Patent No. 4,917,471); and claims 5 and 6 under 35 U.S.C § 103(a) over Kim in view of Takao, and further in view of Kanemori et al. (U.S. Patent No. 6,275,274). These rejections are respectfully traversed.

Kim, alone or in combination with Takao, does not disclose or suggest the liquid crystal display of claim 1 in which, inter alia, a B cell gap is differentiated from an R cell gap or a G cell gap, the color filter substrate of claim 7 in which, inter alia, the blue color filter has a thickness larger than the red color filter or the green color filter, or the process of manufacturing a liquid crystal display of claim 9 including, inter alia, differentiating a B cell gap from an R cell gap or a G cell gap.

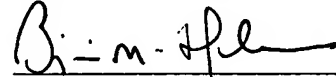
The Office Action asserts that Takao makes up for the deficiencies of Kim by disclosing the above features. However, as discussed below, Takao actually teaches away from providing a B cell gap differentiated from an R cell gap or a G cell gap.

Takao is primarily concerned with eliminating a stepped difference from occurring between color filter units within the substrate plane. See, for example, column 1, lines 60-64 and column 4, lines 34-47 of Takao. Specifically, Takao discloses color filters formed with substantially the same film thickness, and if there is to be any difference in thickness between the color filters, this difference is kept to a minimum, i.e., the maximum film thickness difference $X \leq (1/10)d_0$, where d_0 is the distance between a pair of substrates, or the difference in thickness is compensated for by transparent resin films 31 and 32 to provide a substantially flat substrate plane. See column 5, lines 12-25 and 59-63 of Takao. In contrast, according to the claimed invention, the B cell gap is differentiated from an R cell gap or a G cell gap so that the substrate plane is not flat, which in turn reduces inter-gray scale color shift. See, for example, page 18, lines 7-15 of the present specification. Takao can not provide this advantage, and in fact teaches away from the claimed feature, because, as discussed, it teaches eliminating a stepped difference from occurring within the substrate plane. Thus, Takao would not motivate one having ordinary

skill in the art to modify Kim by differentiating the B cell gap from an R cell gap or a G cell gap.

For at least these reasons, it is respectfully submitted that claims 1, 7 and 9 are patentable over the applied references. Dependent claims 2-6, 8, 10 and 11 are also patentable over the applied references for the reasons discussed as well as for the additional features they recite. Applicant respectfully requests that the rejections under 35 U.S.C. § 103 be withdrawn.

Respectfully submitted,



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